

CECW-EE

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U.S. Army Corps of Engineers  
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Manual  
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**Engineering and Design**  
**WIRE ROPE SELECTION CRITERIA FOR GATE-OPERATING DEVICES**

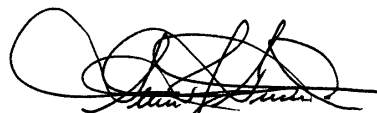
**1. Purpose.** This manual provides information and criteria important to the selection, installation, and maintenance of wire rope and fittings. It applies primarily to gate-operating devices within the Corps of Engineers' responsibility.

**2. Applicability.** This manual applies to all USACE Commands having civil works responsibilities.

**3. General.** A unique problem facing the Corps is the wide variety of wire rope service conditions, which are determined by rope and hoisting equipment design, frequency of use, and the operating environments that exist at Corps installations. This manual covers many of these conditions and presents the latest state-of-the-art technology from commercial and industrial sources and information from existing Corps projects. Its purpose is to optimize the service life of wire rope and to reduce the likelihood of future failures.

**4. Distribution Statement.** This manual is approved for public release; distribution is unlimited.

FOR THE COMMANDER:



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